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Form 504 Ed. June, 1928		
DEPARTMENT OF COMMERCE	Ε	
U. S. COAST AND GEODETIC SURVEY	Military Residence	
R. S. PattonDirector	J. S. COA	Y & SEOSETIC SURVI
	LIBRA	RY AND ARCHIVES
	NO	V. <b>25</b> 1.33
State: Maryland		i ta
	MI. 70.	THE REAL PROPERTY AND THE PERSONS ASSESSED.
DESCRIPTIVE REPO	RT	
$\frac{Topographic}{Hydrographic}$ Sheet No. 1 53	27	
LOCALITY		
East CHESAPEAKE BAY		
Knapp's Narrows to Bloody		
Point Bar Light.		
		¥ 14. 14.
19 <sub></sub> . <b>33</b>		
CHIEF OF PARTY		`
E. R. McCarthy		

Form 537 Ed. Dec., 1930

#### DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURV LIBRARY AND ARCHIVES [NOV. 25 1933	REG. NO
Acc. No.	S

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

# REGISTER NO.5327

State Maryland
General locality Chesapeake Bay
Locality Knapp's Narrows to Bloody Point Bar Light.
Scale 1:10000 Date of survey Sept. 29, to Nov. 19, 19 33
Vessel Shore Party
Chief of Party E.R.McCarthy
Surveyed byE.R.McCarthy and R.A.Philleo
Protracted by A.G.Turner and R.A.Philleo
Soundings penciled by A.G.Turner, R.A. Philleo, E.W. Smith
Soundings in fathems-feet
Plane of reference Mean Low Water
Subdivision of wire dragged areas by
Inked by C. E. Delleut
Verified by WHBamfard
Instructions dated August 12,, 19 33
Remarks:

#### Authority:

Instructions from The Director dated August 12, 1933. Original instructions for J.A. Bond dated May 10, 1933.

#### Limits:

Harbor Cove to 0.6 mile south of Knapps Narrows to 4.0 miles West of Pawpaw Pt. to Bloody Pt. Bar Light House.

#### Methods:

Positions were located by the usual three-point sextant fixes on objects located by triangulation and topography. Soundings were taken with a lead line graduated in fathoms and feet in depths over two fathoms, and with a sounding pole graduated in feet and half-feet for depths below two fathoms.

#### Equipment:

A hired launch, the NANUK, was used for all hydrography except the inshore work which was done with an outboard motor on a specially fitted skiff.

#### Discrepancies:

The soundings crossed very well, the largest difference being 1 foot.

#### Dangers:

A large barge grounded in 5 feet of water in Lat. 38-42(1092), Long. 76-21(170). This barge drifted on the ground during the month of September and apparently has grounded permanently as several high waters have failed to float it.

#### Channels:

A narrow channel kept open by the boats using it leads into Knapps Narrows from the beacon. This channel is but slightly deeper than the general depths, and has about  $l^{\frac{1}{2}}$  feet of water at mean low water. This channel is used only by small fishing boats, and is marked by brush stakes on the south side.

A channel with a least depth of 6 feet leads to the wharf in Ferry Cove from the beacon. The best water is to the south of the beacon. Least depth of  $6\frac{1}{2}$  feet was obtained by the skiff on "c" day, and "f" day (position 82). This channel is used only by oyster boats drawing from 3 to 4 feet.

A channel with a least depth of  $5\frac{1}{2}$  feet leads into Poplar Island Pot. This harbor is used only by small craft seldom drawing over 3 feet. The center line of the channel is about 380 meters north of the northerly point of Coaches Neck.

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

A least depth of 9 feet may be carried through Poplar Island Narrows. The channel is narrow and requires considerable local knowledge to navigate. A boat of over seven feet draft should not attempt the channel as the bottom is lumby. This channel is seldom used by local craft drawing over 4 feet.

Comparison with previous surveys:

This sheet was compared with sheet 2631, and the following differences noted:

Latitude 38-46.9 Longitude 76-24.0

A 16 foot shoal is shown here. This was investigated and the least depth obtained in the vicinity was 19 feet on Position 130 i and 166 r.

Latitude 38-46.8 Longitude 76-24.2

A 16 foot shoal is shown here. This was investigated and the least depth obtained was 19 feet on Position 120 j and 99 t.

Latitude 38-46.3 Longitude 76-24.0

A shoal with a least depth of 13 feet is shown in this vicinity. The least depth obtained was 13 feet on Position 137 i. It extends about 0.3 mile to the westward and has several 132 feet depths.

Latitude 38-47.1 Longitude 76-23.2

A shoal with a least depth of  $14\frac{1}{2}$  feet is shown here. This was investigated and the least depth obtained was  $14\frac{1}{2}$  feet on Positions 139-40 f and 75-76 t; 41-42 1; 77-78 t; 55-6 1.

Latitude 38-45.5 Longitude 76-24.5

A shoal with a least depth of  $10\frac{1}{2}$  feet is shown here. This was investigated and found to be a bar with a least depth of  $11\frac{1}{2}$  feet extending for about 0.8 mile in a North Northwesterly direction. 9 Over the remainder of the sheet the depth curves check quite closely with the original work.

This sheet was also compared with sheet 2464 and the following differences noted:

Latitude 38-48.7 Longitude 76-20.9

A shoal with a least depth of 18 feet is shown here. This was investigated and the least depth obtained was 21 feet on Position 55-8 u.

Latitude 38-48.5 Longitude 76-20.7

A shoal with a least depth of 18 feet is shown here. This was investigated and a least depth of  $18\frac{1}{2}$  feet obtained on 34-6 j.

Latitude 38-48.0 Longitude 76-23.6
This shoal was on the edge on the sheet. The least depth obtained was 30 feet on 119-22 to

Latitude 38-47.9 Longitude 76-23.1

A shoal with a least depth of 29 feet is shown here. The least depth obtained was 29\frac{1}{2} feet on Position 108 t.

Latitude 38-47.4 Longitude 76-22.3

A shoal with a least depth of 6 feet is shown here. This was investigated and the least depth obtained was 7 feet on Position 78-9 i and 174 r.

Latitude 38-47.4 Longitude 76-21.6 A shoal with a least depth of 6 feet is shown here. This was investigated and least depth found was 7 feet on Position 170-1 + 4 and 192-3 q.

Latitude 38-47.2 Longitude 76-20.2

A shoal with a least depth of 6 feet is shown here. This was investigated and least depth found was 7½ feet on Position 33 1.

Latitude 38-47.7 Longitude 76-20.7

A shoal with a least depth of 18 feet is shown here. This was investigated and least depth found was 19 feet on Position 20 i.

Latitude 38-47.6 Longitude 76-19.6

A shoal with a least depth of 6 feet is shown here. This was investigated and the least depth obtained was 72 feet on Position 33-4 u.

Latitude 38-46.9 Longitude 76-23.3

A shoal with a least depth of 13½ feet is shown here. This was investigated and the least depth obtained was 14½ feet on Position 139-40 f; 41-2 1; 73-8 t. This shoal has several high spots due to oyster dredging.

Latitude 38-46.1

Longitude 76-20.2

A shoal with a least depth of 6 feet is shown here. A least depth of 6 feet was obtained on 3-4 m. This is an extremely small shoal.

Latitude 38-45.7 Longitude 76-21.6

A least depth of  $8\frac{1}{4}$  feet is shown here. This was investigated and a least depth of  $8\frac{1}{2}$  feet obtained on Position 136-7 d.

Latitude 38-45.2 Longitude 76-21.3

A least depth of 5 feet is shown here. This was investigated and the shoalest depth obtained in this location was 8½ feet on Position 63-4 g. The bottom here is quite irregular, as a second 8½ foot point is located 0.1 mile to the eastward (Position 80-1 c).

A third 8 foot point 0.1 mile to the south east, and a fourth 8½ foot point 0.2 mile to the eastward.

628 xou 82-83 C, 0.1 mile N'ad.

#### Comparison with previous surveys:

Latitude 38-44.9 Longitude 76-21.2

A shoal with a least depth of ten (10') feet is shown here.

This was investigated and the least depth obtained was ten and one-half  $(10-\frac{1}{2})$  feet, on Position 7t.

Latitude 38-44.4 Longitude 76-21.3

No shoal was shown here. A number of three and one-half (3-1/2) feet spots in general depths of four (4') feet were obtained in this area.

#### Shoals not on previous surveys:

Latitude 38-46.9 Longitude 76-24.1

A shoal with a least depth of eighteen and one-half (18-1/2)
was located here, on position 97r.

Latitude 38-46.8 Longitude 76-21.3

There are several ninteen (19') feet spots in this area, none of which were investigated as the bottom was irregular.

Latitude 38-45.2 Longitude 76-23.8

A least depth of five and one-half (5-1) feet was located here. The general depths are six (6') feet. This area was not developed on the 1900 work.

Latitude 38-45.4 Longitude 76-21.2

A shoal with a least depth of six and one-half (6-1/2') is located here. General depths are seven (7') feet.

Latitude 38-44.8 Longitude 76-20.8

A number of shoal spots were located in this vicinity. As a / rule these are one-half (2) foot less than the general depths.

Latitude 38-44.3 Longitude 76-20.8

A three and one-half  $(3-\frac{1}{8})$  foot shoal, located on positions 7-9g were located here. General depths are 4-5 feet.

L titude 38-44.1 Longitude 76-21.1

A shoal with a least depth of five and one-half (5-2) feet is located here, on positions 28-9 g and 11-12c. General depths are 7-8 feet.

Latitude 38-43.8 Longitude 76-21.0

A shoal with a least depth of seven (7 ') feet is located here, shown on positions 72-3c. General depths are 8 to 10 feet, and the bottom is ragged.

Latitude 38-43.8 Longitude 76-23.8

A shoal with a least depth of (29') was located here, shown on positions 193g--and 167-77 p. General depths are 31 to 33 feet.

#### Records:

A number of soundins erroneously placed in the record due to either the leadsman's or recorder's error were investigated and disproved. These are explained in the record.

#### Landmarks:

A list of landmarks are submitted with the topographic sheet for this area.

#### Names:

Names are shown on the topographic sheet for this area.

#### Miscellaneous:

Statistics and tidal notes are attached.

No cross lines were run.

A Federal allotment has been made to dredge Knapps Narrows to a depth of nine (9') feet and a width of seventy (70') feet. The allotment is contengent on the willingness of the State of Maryland to build a drawbridge. To date no action has been taken by the State.

Respectfully submitted:

Ef Mc Conty

Hydrographer.

Morwarded approved:

GR Mc Cartly

Chief of Party.

applied to new shart 550

## STATISTICS- HYDROGRAPHIC SHEET NO. 1 LAUNCH- NANUK

D <b>AÝ</b>	DATE	BOAT	MILES (STATUTE)	SOUNDINGS	POSITIONS	TOTAL MILES FOR DAY
а	9-29-33	Nanuk	17.2	353	79	25.1
Ь	10- 2-33	11	11.3	<b>4</b> 55	77	<b>16.8</b>
c	10- 3-33	11	28.2	1034	190	30.0
d	10- 4-33	. 11	27.9	1055	184	√ 36.6
e	10- 5-33	11	30.4	1181.	204	<b>35.1</b>
£	10- 6-33	11	28.9	1099	201	£ 34.8
9	10- 7-33	n	29.2	1030	198	37.9
h ·	10- 9-33	11	27.4	1016	189	á 33∙4
i	10-10-33	n	23.0	837	164	33.7
j	10-11-33	n	26.3	944	176	37.4
k	10-12-33	n	25.0	952	167	40.0
	10-13-33	#	08.1	304	56	22.5
m	10-16-33	11	24.1	817	150	<i>3</i> 6∙5
n	10-18-33	n	21.7	513	152	36.8 -
p	10-19-33	11	22.3	767	209	31.4
9	10-20-33	11	16.6	949	227	9 25.7
~	10-21-33	11	22.0	846	206	8 36.6
S	10-24-33	11	03.3	149	44	5 12.6
t	10-26-33	11	16.3;	581	153	7 39.2
и	10-27-33	tt .	05.6	207	61	υ 12.4
Tot	als		414.8	15089	3087	614.5
SU <b>T</b>	B-TOTAL 11-19-33	iti.	0.7	21	8 ,	/ 13.5
- GRA	ND-TOTAL		415.5	15110	3095	628.0

STATISTICS- HYDROGRAPHIC SHEET NO. 1

DAY	DATE	BOAT	MILES (STATUTE)	SOUNDINGS	POSITIONS	TOTAL MILES FOR DAY
а	10-12-33	Skiff	3.0	108	20	10.3
ь	10-16-33	11	7.9	436	81	13.1
c	10-18-33	n	5.2	212	44	8.3
d	10-19-33	11	6.6	367	81	8.6
е	10-20-33	11	6.7	320	78	11.7
£	10-21-33	11	7.2	362	82	10.7
9	10-26-33	**	8.1	375	83	13.4
h	10-27-33	11	6.9	305	67	10.4
j	10-30-33	11	9.4	436	102	12.7
<u> </u>	11- 3-33	11	4.9	226	53	7.0
.*						
ATOT			65.9	3147	691	106.2
. SUB-	TOTAL 11- 7-33	11	0.7	38	10	1.0
GRAI	D- TOTAL		66.6	3185	701	107•2
			·			
						1
	L			Land to the second of the second	1	

#### TIDAL NOTE TO ACCOMPANY HYDROGRAPHIC SHEET # 1

The automatic tide gauge established at Ferry Cove was used for the reduction of soundings for the entire sheet.

Position of the gauge is Latitude 38-45.9

Longitude 76-19.8

Mean low water on the staff is 2.2 '.

The gauge clock stopped a number of times and the necessary tides were interpolated from the Thomas Point L.H. gauge established by the "Mikawe" party, in conjuntion with the height on the Ferry Cove Gauge.

Chief of Party.

H MODERNAM COXIE

October 20, 1933.

To: Lieut. (j.g.) E.R. McCarthy, U.S. Coast & Geodetic Survey, Tilghman, Mad.

From: The Director,
U.S. Coast and Geodetic Survey,

Subject: Tide Data, Ferry Cove.

In compliance with the request contained in your letter of October 16, 1933, your tide records for Ferry Cove have been compared with simultaneous observations at Annapolic for the period September 27 to October 15, 1933.

The Plane of mean low water determined from this comparison for use in the reduction of soundings corresponds to a reading of 2.2 feet on the tide staff at Ferry Cove.

Signed--R.S. Patton Director.

December 5, 1933

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in 13 volumes of sounding records for

HYDROCRAPHIC SHELF 5327

Locality Knapp's Narrows to Bloody Point Bar Light, Chesapeake Bay, Md.

Chief of Party: E. R. McCarthy in 1933
Plane of reference is mean low water, reading
2.2 ft. on tide staff at Ferry Cove
4.3 ft. below B. M. 1

Height of mean high water above plane of reference is 1.0 ft.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents

# HYDROGRAPHIC SHEET No.5.3.2.7

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	3796
Number of positions checked	.4.8
Number of positions revised	3
Number of soundings recorded	18,295
Number of soundings revised	42.
Number of signals erroneously	
plotted or transferred	

Date: A. J. 1934.

Cartographer: A. C. Delheul.

PARTIAL REPORT ON H5327 Dec. 14, 1933 1 ) The profracting was checked and found to be very well some - only three positions were changed x 24 It is noted that the degree and minute symbole for the parallels and meridians on this obset were witted by the field party 34 Det was noted that the shrukage in the vicinity of Haddaway Cove Beacon was six wetere per thousand. 44 Triangulation station Haddanay Cove Bn (1909-1933) [on smooth sheet war found to be identical with the briangulation station on topographic sheet number 4.769 Ferry Cove Bn 1933

# PA602

54 The topographic ingual shown on the mooth sheet as O BEE (Poplar Island Narrows Bu) is identical with the tops graphie signal show an topographie sheet No 4769 as O BEE (South Bar Br.)

6 / Ox war noted that a number of geographical names shown on topographic with sheet No. 4769 were at variance with the names shown on chart No. 77. The V differences one noted as follows. Names on chart 77 Now on T 4769

Lowes Point

Lows Point

HADDAWAY COUE

FERRY COVE GREEN MARSH POINT - GREAT MARSH POINT.

7. The note stoling the lature the later to war smitted !

sheet in referred to war smitted!

by the field party.

0 x/ The grounded barge at Lat. 38 42+1092m and Long 76°-21+170m was located by a three point fix found

Page 3 8 CONTD. in the index of vol 9. It is noted that the barge was showing two feet above water at that I time. as the reduction for take eight minutes later want zero the wrech is shown as borning 2 ft at MLW. 94 a numer of sounding were platted to the vernest half foot - not in locations that fall within the category of "important pointed navigable bases and critical places in Channels" - These halffort soundings abould not be inhed by the office employee x for from Respectfully subutted Warren HBamford

Lection of Field lecords Reporton Hydrographice Sheet No 5327 Knoffs harrows to sloady faint Bar Light Survey Ed in Seft 29, 6 Nov 18, 1933 clief of Party - E. R. Mc Cartly Surveyed by - E.R. Mul. & R.M. Phillio Proteacted by - le. G. Lurer & R. A. P. Sounding: flatled by - L. A. P. - M. S. J. & E. W. Swith Lapagraphy wheely - Field Party Verified & inhed y. - W. W. Samford & R. E. Deluent I ble records conform to the requirements of the Hydrographic Meanual. 2 the Sounding line crassings are adequate and in excellent agreement. 3 the 6,12,18, 30, 60 food curves can he pero curve is slown in a few places. 4 the field platting was completed to the extent prescribed in the Kyd. Man - count

- 5 the following details were added by the office draftsman:
  - (a) Degree and Minute Symbols /
  - (6) Datum Mate V
  - (c) Name on OBRE (Roplar Island Beason)
  - (d) Hydrographic Station descriptions)
- Latisfactory junctions are made on the North and Morth-west with H-5328 \$ 5237 resp.
- 7 Remarks
  - (a) This sheet arrived in a very diety condition, probably due to excessive at carelies handling by the field harty, heart of this diet is unecasable with damage to the plotted work.
  - (b) Lat 38°-46.3', Lang 76°-23.1'. Lowo logs, mentioned in tecards, (Val 9, hts 65 \$ 67) as bassed log's are indicated on this sheet. These logs are brobably drift wood, as they were dislodged from Poplar Island by the Sept."

- (See records VI b9, for 37 a (red)] was not inded.
- (d) Lat 35°-48.8', Lary 16°-23.75'- a 23' saunding (Sue record VII \$51) was not ended. This

  saunding was disproved bylater saundings 
  Regential
- (c) Considerable difference was noted in the Sugraphic names between the Lopo sheet and me chart 1225 and Geographic Survey makes of this area. The following names were noticely, pending approval or disapproval by the Geographic Board:

Frank Cruck
Green March Pt.
Soal. Ix.
Coacles Mech
Colller Mech
Catin Cave
Lerry Cave
Lawes It.
Lawes le Larf

(f) This Report is supplemented by that of Mr. Bamford.

8

Respetfally Sudmitted

R. E. DeMent

Led 9, 1934

### SECTION OF FIELD RECORDS Review of Hydrographic Sheet No. 5327. Knapps Narrows to Bloddy Point Bar Light, Chesapeake

Bay, Maryland.

Surveyed Sept. - Nov. 1933.

Instructions dated May 10, 1933, MIKAWE, and Aug. 12, 1933, (McCARTHY)

Chief of Party - E. R. McCarthy. Surveyed by - E. R. McCarthy and R. A. Philleo. Protracted by - A. G. Turner and R. A. P. Soundings penciled by - A. G. T., R. A. P. and E. W. Smith. Verified by - W. H. Bamford. Inked by - R. E. DeMent.

- 1. The records conform to the requirements of the Hydrographic Manual.
- 2. The plan and extent of development conform to the regulations and satisfy the specific instructions except that no cross lines were run.
- 3. Soundings are consistent and no discrepancies are noted. Several logs are shown off the west coast of Poplar Island but the records do not indicate whether they are permanently bedded or temporary driftwood.
- 4. Depth curves can be drawn satisfactorily.
- 5. Junction with H. 5237 and H. 5328 to northward are satisfactory. No contemporary surveys extend to the south and west.
- 6. Comparison with H. 2464 (1899), H. 2631 (1902) and H. 2652 (1903) shows very good agreement in depths. From  $\frac{1}{2}$  to 1 foot deeper water was found over some of the shoaler areas than is shown on previous surveys. No evidence of the deep hole shown on H. 2464 between Poplar Island and Coaches Neck was found by this survey. Considerable change in inshore details is noted especially on the east coast of Poplar Island.

No new dangers to navigation have been located, except location of an abandoned barge which is shown by a wreck symbol just south of the surveyed area. This should be shown on Chart 1225. A number of names on Chart 1225 do not conform to local usage. Recommendation relative to these names has been made to the Board of Geographic names, see Descriptive Report T. 4769.

- 7. Field protracting and penciling of soundings was satisfactory. Degree and minute signs were omitted from the lat. and long. values; the minute values straddle the meridians instead of being to the right of the line. Datum note was added to the sheet in the office.
- 8. Recommendation. This sheet (H. 5327) should supersede all previous surveys for charting the area represented.

No further surveys are deemed necessary at this time.

Reviewed by - R. J. Christman, March 1, 1934. Olbul?

Examined and approved:

L. O. Colbert,

Chief, Section of Field Records.

Chief, Section of Field Work.

Division of H. & T.

# NAUTICAL CHARTS BRANCH

### SURVEY NO. 5327

# Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
5/26/48	551	HEMMac Ewen	Before After Verification and Review between the limit of Chart 550 + H6952 + H6958
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.